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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/863,720	05/23/2001	Eric W. Nielsen	00-357	1496
7590 08/16/2007 W. Bryan McPherson III Caterpillar Inc. Intellectual Property Department, AB6490 100 N.E. Adams Street Peoria, IL 61629-6490			EXAMINER	
			KE, PENG	
			ART UNIT	PAPER NUMBER
			2174	
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			08/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-		Application No.	Applicant(s)	1			
Office Action Summary		09/863,720	NIELSEN ET AL.				
		Examiner	Art Unit				
		Peng Ke	2174				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status		•					
1)  🏹	Responsive to communication(s) filed on 29 M.	ay 2007.					
· —	This action is <b>FINAL</b> . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4) 🖂	4) Claim(s) <u>1-24</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-24</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8) 🗌	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)	The specification is objected to by the Examine	r.					
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by the l	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	ected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmen	it(s)						
	te of References Cited (PTO-892)	4) Interview Summary					
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Do 5)  Notice of Informal P 6)  Other:					

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#### DETAILED ACTION

This action is responsive to communications: Amendment, filed on 5/29/07.

This action is final.

Claims 1-24 are pending in this application. Claims 1, 18, and 22 are independent claims.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 4, 6-11, 13, 15-24 rejected under 35 U.S.C. 102(e) as being anticipated by Hariya et al. U.S. Patent No. 6,727,898.

As per claim 1, Hariya et al. teaches a method of presenting a graphical user interface for a finite element analysis application on an electronic display device, comprising:

launching a parent graphics window on said electronic display device for displaying an image; (figure 15, column 9, lines 15-32) and

attaching a property input window to said parent graphics window for displaying and manipulating settings and attributes of an entity selected within said parent graphics window, wherein a first interface element of said property input window includes at least one of an

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interval count field indicative of a number of mesh entities that will fill said selected entity, an interval size field indicative of a size of said mesh entities that will fill said selected entity, (column 4, lines 25-30; figure 6 column 5, lines 5-10, total number of elements is a count filed) an interval set field indicative of a circumstance under which said interval fields may be modified, (column 8, lines 25-50) a mesh scheme field indicative of a desired mesh scheme and a smooth scheme field indicative of a process of improving said an element quality after a mesh generation. (column 9, lines 20-32)

As per claim 2, Hariya et al. teaches the method of claim 1 further comprising attaching a task window to said parent graphics window for geometry creation, manipulation, and meshing of said entity within said parent graphics window, wherein a first interface element of said task window having a first tab identifier includes at least one of a first iconic button, adapted to providing creation capabilities of at least one of a vertex entity and curve entity and surface entity and volume entity and brick entity and sphere entity. (column 9, lines 13-32) and

cylinder entity and pyramid entity and torus entity and frustum entity, and a second iconic button adapted to providing modification capabilities of entities by at least one of webcutting and imprinting and cleaning and combining and Boolean operations and healing and positioning and scaling and separating and splitting and copying and merging and tweaking.

(column 7, lines 45-column 8, lines 25)

As per claim 4, Hariya et al. teaches the method of claim 1 further comprising attaching an entity tree window to said parent graphics window for displaying a graphical hierarchical representation of the parent child relationship of said entity selected within said graphics window

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or said entity tree window, wherein first interface element of said entity tree window includes parent and child entity names/IDs, ID icons, and mesh status check boxes. (column 7, lines 45-column 8, lines 25)

As per claim 6, Hariya et al. teaches the method of claim 2 wherein said task window includes an advanced selection dialogue interface for selection of said entity in said graphics window that is particularly difficult to select yet is required for finite element analysis application execution and wherein said advanced selection dialogue interface includes a list box for displaying a current list of at least one said entity available for a particular FEA application command, and a required-entity field for displaying the number and type of said entity required for said finite element analysis application execution. (column 7, lines 45-column 8, lines 25)

As per claim 7, Hariya et al. teaches the method of claim 2 further comprising outputting a filter picking dialog interface window from said task window for filtering entities to parse out entities that match or do not match said entity characteristics, wherein said filter picking dialog interface window includes a filter-criteria field for including or excluding filtered entities and performing specified actions on said including or excluding filtered entities, and a register list box for listing at least one registered filter for limiting subsequent selection operations in said graphics window to those that meet said filter criteria. (column 7, lines 40-50; vertical analysis includes filtering analysis)

As per claim 8, Hariya et al. teaches the method of claim 7 wherein said registered filter is deactivated, so as to not limit said subsequent selection operations in said graphics window, while remaining a registered filter in said filter picking dialog interface window. (column 9, lines 13-32)

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As per claim 9, Hariya et al. teaches a computer-readable medium having computerexecutable instructions for performing the steps recited in claim 1. (figure 1, items 1)

As per claim 10, it is rejected with the same rationale as claim 1. Supra.

As per claims 11, 13, and 15-17 they are of the same scope as claim 1, 4, and 6-8. Supra.

As per claim 18, Hariya et al. teaches a method of presenting a graphical user interface tabbed-based menuing system on an electronic display device, comprising:

launching a parent window on said electronic display device for displaying an image; ; (figure 15, column 9, lines 15-32) and

attaching a child window to said parent window wherein said child window includes a first interface element having a first tab identifier and at least one iconic button wherein selection of said at least one iconic button associated with said first interface element outputs a second interface element having a second tab identifier wherein said second interface element overlaps said first interface element except for said first tab identifier. (column 4, lines 25-30; figure 6 column 5, lines 5-10)

As per claim 19, Hariya et al. teaches the method of claim 18, further comprising alternating between said first interface element and said second interface element by selecting said first tab identifier and said second tab identifier, respectively. (column 9, lines 20-32)

As per claim 20, Hariya et al. teaches the method of claim 18, wherein said first tab identifier and said second tab identifier are oriented at bottom of said first interface element and said second interface element, respectively. (column 9, lines 20-32)

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As per claim 21, which is dependent on claim 18, it is of the same scope as claim 9. Supra.

As per claim 22, it is rejected with the same rationale as claim 18. Supra.

As per claims 23 and 24, they are of the same scope as claim 19 and 20. Supra.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 5, 12, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hariya et al. U.S. Patent No. 6,727,898 in view of Jordan et al. U.S. Patent No. 5,745,113.

As per claim 3, Hariya et al. teaches the method of claim 1. However, Hariya fails to teach the device comprises attaching a textual input window to said parent graphics window wherein first interface element of said textual input window includes a command line for entry of textual commands for said finite element analysis application execution.

Jordan teaches a device comprises attaching a textual input window to said parent graphics window wherein first interface element of said textual input window includes a

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command line for entry of textual commands for said finite element analysis application execution. (figure 2. item text)

It would have been obvious to an artisan at the time of the invention to include Jordan's teaching with method of Hariya to allow user to enter command in text.

As per claim 5, Hariya et al. teaches the method of claim 1. However Hariya fails to teach the device comprising attaching a textual output window to said parent graphics window wherein first interface element of said textual output window includes an output line having textual feedback of activity executed by said finite element analysis application.

Jordan teaches a device comprising attaching a textual output window to said parent graphics window wherein first interface element of said textual output window includes an output line having textual feedback of activity executed by said finite element analysis application. (column 12, lines 1-25)

It would have been obvious to an artisan at the time of the invention to include Jordan's teaching with method of Hariya to allow user to review input history.

As per claims 12 and 14, they are of the same scope as claims 3 and 5. Supra.

### Response to Argument

Applicant's arguments filed on 5/29/07 have been fully considered but they are not persuasive.

Applicant's argument focused on the following:

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- (a) Hariya fails to disclose or teach "launching a parent graphics window on said electronic display device for displaying an image; and attaching a property input window to said parent graphics window for displaying and manipulating setting and attributes of an entity selected within the said parent graphics window."
- (b) Hariya fails to disclose a separate window attached to the "parent graphics window for displaying and manipulating setting and attributes of an entity selected within said parent graphics windows."

Examiner disagrees.

(a) The examiner does not agree for the following reasons:

During patent examination, the pending claims must be "given >their < broadest reasonable interpretation consistent with the specification." > In re Hyatt, 211 F.3d 1367, 1372, 54 USPQ2d 1664, 1667 (Fed. Cir. 2000). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant always has the opportunity to amend the claims during prosecution, and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-51 (CCPA 1969).

In this case, Hariya teaches this limitation because it launches a model selection/manipulation screen, which is shown on figure 8 and figure 15. (see figure 8, item 801 and figure 15) Furthermore, the users can manipulate the entity within the screen through the "modify mesh" option. (see figure 15, column 3, lines 60-65)

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(b) In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "a separate window attached to the "parent graphics window") are not recited in the rejected claim(s).

Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peng Ke whose telephone number is (571) 272-4062. The examiner can normally be reached on M-Th and Alternate Fridays 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine L. Kincaid can be reached on (571) 272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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